

CF 51 Heat and cooling Meter Calculator

The CF 51 is a stand-alone calculator issued from the Itron CF Heat Meter Family and represents a technology step forward in the metering of thermal energy.

Easy to handle, this calculator will turn your investment into benefits.

Applications

Heating, Cooling and Combined, return and supply positioning.

Multifunctional Display

The multifunctional display facilitates easy reading, providing fast and clear access to the most important billing data. The display enables the diagnosis of failures alarms from a single glance.

The LCD has a long life time and through a push button you get easily access to each level of data.

Standards Compliance

- > MID 2004/22/EC Module D
- > Env. Class C acc. EN 1434
- > PTB approved

Benefits

- > Simple to use
- > Easy reading
- > Upgrade with option boards



Loop 3

> Fixed date energy 1...13

> Fixed date cooling energy

> Fixed date volume 1...13

> Fixed date water meter 1/2

Fixed Date Reading

1...13

1...13*

* Optional

> Software version

► Loop 1

Billing Data

- > Energy
- > Cooling energy*
- > Volume
- > LCD test
- > External water meter 1/2*

* Optional

► Loop 2

Additional Information

- > Flow rate
- > Power
- > Supply temperature
- > Return temperature> Temperature difference
- > Operating time
- > Power peak date + time*
- > Flow peak date + time*
- > Temperature peak
- date + time*
- > Instantaneous bonus*
- > Cumulative bonus*
- > Time in alarm
- > Temperature alarm
- > Flow alarm
- > Overflow alarm
- > Power supply alarm
- > Current time + date*
- > M-Bus primary address
- > M-Bus secondary address
- > M-Bus baud rate
- > Pulse value water meter 1/2*
- * Optional



- > Modular Design
- > Plug and Play Communication options boards
- > Bonus calculator
- > Max. demand manager
- > **2** wire

CF 51 Energy Calculator

Metrology exceeds
Temperature range
Temperature difference
Temperature sensors
Display
Back-up memory
Power supply (optional)
Protection class
Environmental class
Ambient temperature
Pulse value (programmable)
Optical interface

Option Boards Characteristics

PTB, DRIRE, OIML, EN 1434 0 ... 180 °C 3 ... 160 K Pt100 or Pt500, 2 wires LCD - 7 digits EEPROM 6 or 12 year Lithium battery - 230 V main power supply or power supply by M-Bus IP64 Class C acc. EN 1434 5 ... 55 °C 1 / 2.5 / 10 / 25 / 100 / 250 / 1000 L EN 60870-5 / M-Bus protocol



M-Bus Standard reference EN 1434-3 Baud rate 300 to 2400 baud Data in standard mode Energy, Volume, Flow, Temperatures (supply, return, difference), Time in error, Operation time, Date and time, Volume of water meters 1&2. Firmware version Pulse inputs for water meters Pulse value (independent per input) 1 / 2.5 / 10 / 25 / 100 / 250 / 1000 L/imp Pulse detection Contact closed $R \le 500 \Omega$ Contact opened R ≥ 100 kΩ Maximum frequency: 10Hz **Energy and Volume Pulse output** Repetition of display Pulse value Energy from 1KWh to 1MWh Volume from 10 L to 1 m3 **Modem application** PSTN Network, meter calls programmed phone number at a pre-defined time. LON application Transceiver TP/FT-10 Transmission speed 78 Kb/s **Radio Applications** Compatibility AnyQuest radio walk-by system EverBlu radio fixed network system (Q2-2010) Frequency 433 MHz Protocol Radian open protocol

Dimensions



> Wall mounting



Option Boards

The CF 51 is pre-equipped for communication. Different option boards can be plugged simply to the meter and start working automatically.

The following option boards are available:

 > Board 1: M-Bus + E/V Repetition
 > Board 2: M-Bus + 2 external Water meters
 > Board 3: Modem + 2 external Water meters
 > Board 4: LON + 2 external Water meters
 > Board 5: Radio + 2 external Water meters
 > Board 5: Radio + 2 external Water meters
 > Board 6: M-Bus + 2 external

water meters + power supply by MBus

About Itron Inc.

Itron Inc. is a leading technology provider to the global energy and water industries. Our company is the world's leading provider of metering, data collection and utility software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our products include electricity, gas and water meters, data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and related software applications; as well as project management, installation, and consulting services. To know more, start here: www.itron.com

For more information, contact your local sales representative or agency.



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